Detection of CD4 in Formalin Fixed, Paraffin-Embedded Human Tissue

Reagents:

1X Automation Buffer
3% Hydrogen Peroxide
Antibody Diluent
Citrate Buffer
DAB Chromagen
Hematoxylin

Antibody Information:

Kit: Mouse Elite Kit Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666

Catalog: PK-6102

Note: The Vector Mouse Elite Kit contains solutions needed to make the block, secondary and label antibodies.

Avidin Biotin Blocking Kit

Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666 Catalog #SP-2001

Primary antibody: Mouse Monoclonal CD4 Ab-8 (Clone 4B12)

Neomarkers / Lab Vision Fremont, CA 94539 www.labvision.com 1-800-828-1628 Catalog # MS-1528-S

Negative control serum: Normal Mouse Serum Jackson Immunoresearch Laboratories, Inc. West Grove, PA 19390 www.jacksonimmuno.com 1-800-367-5296 Catalog # 015-000-001

Staining Procedure

Positive Control Tissue: Human tonsil

Stain Localization: Membrane

Deparaffinize and hydrate slides through the following solutions.

Xylene	2 times	5 minutes
100% Ethanol	2 times	3 minutes
95% Ethanol	2 times	3 minutes
1X Automation Buffer	2 times	5 minutes

- 1. Quench endogenous peroxidase by placing slides in 3% hydrogen peroxide for 15 minutes.
- 2. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.

3.	Unmasking Technique using the decloaker.
	Add 500ml distilled water to the pan of the decloaker.
	Place a full rack of slides in a Tissue Tek TM container containing 250ml of 1X EDTA
	solution.
	Decloak for 5 minutes. Pressure
	Depressurize for 10 minutes.
	Remove pan top and cool for 10 minutes. Temperature
	Rinse in distilled water two times for 3 minutes each.

- 4. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.
- 5. Apply block from Vector Mouse Elite Kit and incubate for 20 minutes at room temperature.

Exp Date______ New Kit: yes / no

DO NOT RINSE SLIDES. CONTINUE TO AVIDIN-BIOTIN.

6. Apply Avid	din/Biotin block			
Lot#		New Kit:	yes /	no
Apply avid	in block - 15 min at RT.			
Quick rinse	e in 1X AB.			
Apply bioti	in block - 15 min at RT.			
Wipe exces	ss block			

DO NOT RINSE SLIDES WITH BUFFER BEFORE ADDING PRIMARY ANTIBODY.

	Apply primary antibody (CD4) at a 1:10 dilution and incubate for one hour at room temperature.		
Lot#	Exp Date		
serum to the 1:10 dilution	e control slides, normalize the protein concentration of the normal mouse e protein concentration of the primary antibody (CD4). Use this to make a n and incubate for one hour at room temperature.		
8. Rinse slides	in 2 changes of 1X Automation Buffer for 5 minutes each.		
9. Apply secor room tempe	ndary antibody from Vector Mouse Elite Kit and incubate for 30 minutes at rature.		
10. Rinse slide	es in 2 changes of 1X Automation Buffer for 5 minutes each.		
11. Apply labe room temp	el antibody from Vector Mouse Elite Kit and incubate for 30 minutes at perature.		
12. Rinse slide	es in 2 changes of 1X Automation Buffer for 5 minutes each.		
(Add 1 dro	id Dako DAB Chromagen for 6 minutes in the dark. op of DAB per ml of substrate) Exp Date New Kit yes / no		
14. Rinse in ta	p water 3 minutes.		
15. Countersta	in with Modified Harris Hematoxylin for 30 seconds.		
16. Rinse in ta	p water until water is clear.		
17. Place slide	s in 1X Automation buffer for 1 minute with gentle agitation to blue slides		
18. Dehydrate	through the following solutions.		
95% alcohol	1 times 3 minutes		
100% alcohol	3 times 3 minutes		
Xylene	2 times 5 minutes		

19. Coverslip

Updated 05/24/06